What's different? What made a difference?

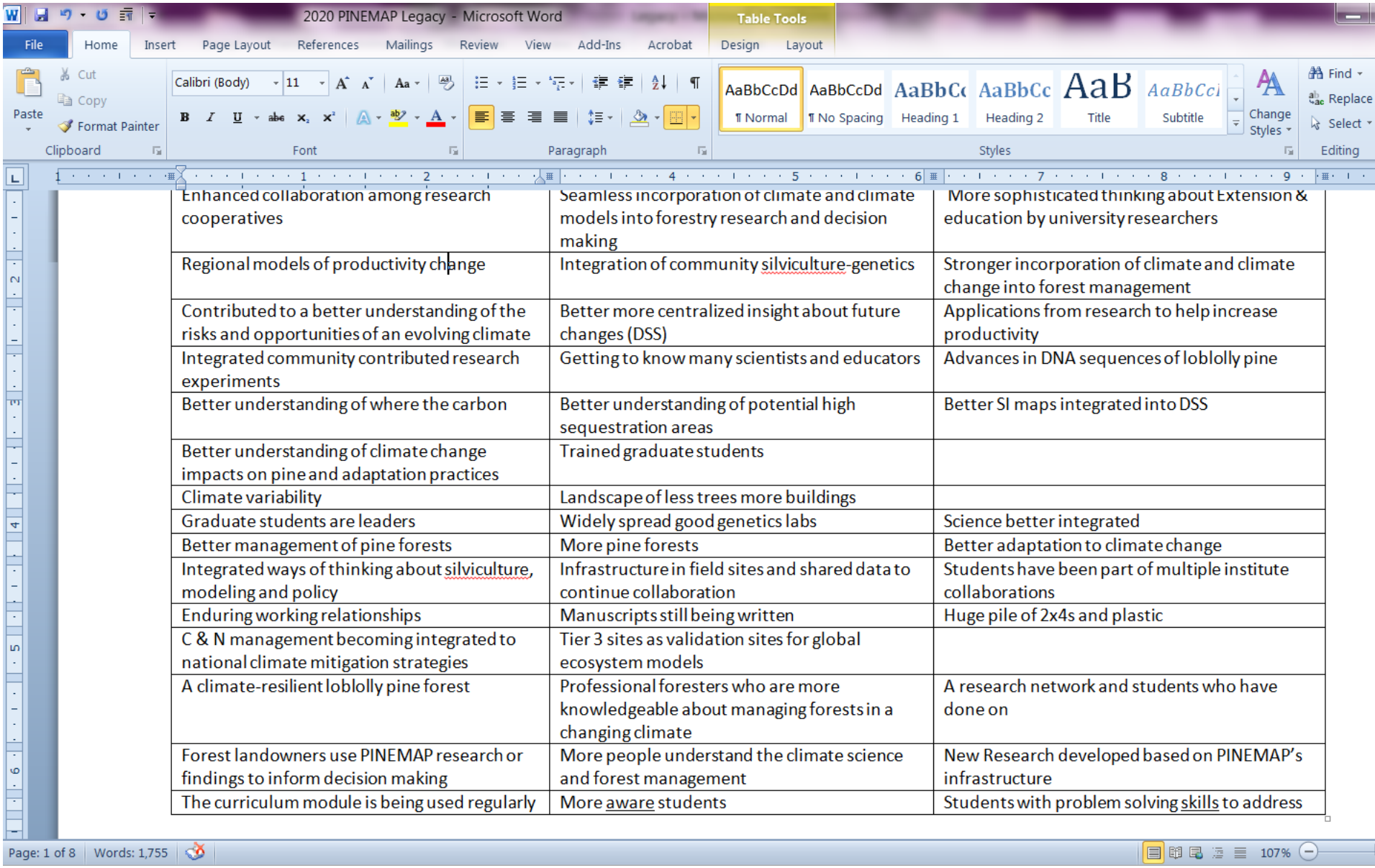
Consider the professional & personal benefits we are carrying forward.

1. What did we create as a community of scientists? What will we value from the experience? What did we learn?

2. How has your science or teaching changed? How has your work with colleagues changed? How has your work with students/faculty changed? What did you learn?

3. **What has helped to make these changes?**

PINEMAP 2020 LEGACY



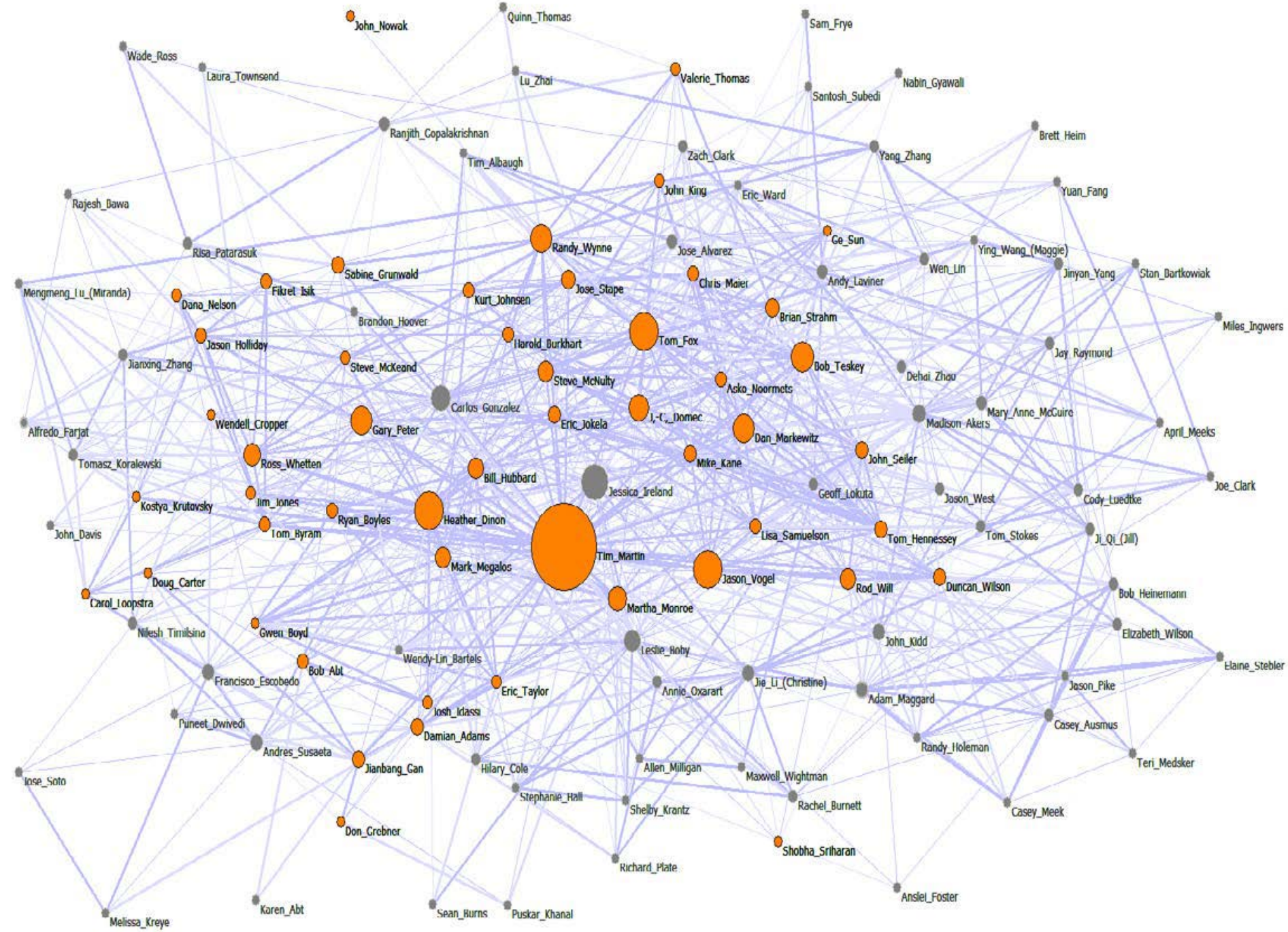
Enhanced collaboration among research cooperatives	Seamless incorporation of climate and climate models into forestry research and decision making	More sophisticated thinking about Extension & education by university researchers
Regional models of productivity change	Integration of community silviculture-genetics	Stronger incorporation of climate and climate change into forest management
Contributed to a better understanding of the risks and opportunities of an evolving climate	Better more centralized insight about future changes (DSS)	Applications from research to help increase productivity
Integrated community contributed research experiments	Getting to know many scientists and educators	Advances in DNA sequences of loblolly pine
Better understanding of where the carbon	Better understanding of potential high sequestration areas	Better SI maps integrated into DSS
Better understanding of climate change impacts on pine and adaptation practices	Trained graduate students	
Climate variability	Landscape of less trees more buildings	
Graduate students are leaders	Widely spread good genetics labs	Science better integrated
Better management of pine forests	More pine forests	Better adaptation to climate change
Integrated ways of thinking about silviculture, modeling and policy	Infrastructure in field sites and shared data to continue collaboration	Students have been part of multiple institute collaborations
Enduring working relationships	Manuscripts still being written	Huge pile of 2x4s and plastic
C & N management becoming integrated to national climate mitigation strategies	Tier 3 sites as validation sites for global ecosystem models	
A climate-resilient loblolly pine forest	Professional foresters who are more knowledgeable about managing forests in a changing climate	A research network and students who have done on
Forest landowners use PINEMAP research or findings to inform decision making	More people understand the climate science and forest management	New Research developed based on PINEMAP's infrastructure
The curriculum module is being used regularly	More aware students	Students with problem solving skills to address

PINEMAP 2020 LEGACY

NOT
Pressure treated lumber & T-posts
Throughfall trays

PINEMAP 2020 LEGACY

- **Talent: trained scientists and managers**
  - Grad students in jobs (and are leaders)
  - Improved pine plantation land management - Resilient forestry practices
- **Enhanced collaboration: Functional working relationships & opportunities to continue research**
  - Cross Coop
  - Cross Institution
- **Better understanding**
  - Integrated ways of thinking about silviculture, modeling and policy
  - Better assessment of future change effects on forestry industry
  - Advances in DNA sequences of loblolly pine
  - Integrative strategies to merge data across disciplines
- **Research Products**
  - Datasets – Tier I, III
  - DSS, PLT --- being used
  - Improved models
- **Climate-resilient pine forests**


John_Nowak
Quinn_Thomas
Sam_Frye
Wade_Ross
Laura_Townsend
Lu_Zhai
Valeric_Thomas
Nabin_Gyawali
Santosh_Subedi
Ranjith_Copalakrishnan
Brett_Heim
Zach_Clark
Yang_Zhang
Tim_Albaugh
John_King
Eric_Ward
Yuan_Fang
Rajesh_Bawa
Randy_Wynne
Jose_Alvarez
Ge_Sun
Risa_Patarasuk
Ying_Wang_(Maggie)
Wen_Lin
Jinyan_Yang
Stan_Bartkowiak
Sabine_Grunwald
Chris_Maier
Andy_Laviner
Mengmeng_Liu_(Miranda)
Fikret_Isik
Jose_Stape
Dana_Nelson
Kurt_Johnsen
Brian_Strahm
Brandon_Hoover
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Ross_Whetten
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Jim_Jones
Heather_Dinon
Ryan_Boyles
Lisa_Samuelson
Tom_Hennessey
Tom_Stokes
John_Davis
Tom_Byram
Tim_Martin
Ji_Qi_(Jill)
Mark_Megalos
Doug_Carter
Jason_Vogel
Rod_Will
Duncan_Wilson
Bob_Heinemann
Carol_Loopstra
Martha_Monroe
Nilesh_Timilsina
Gwen_Boyd
Elizabeth_Wilson
John_Kidd
Leslie_Roby
Wendy-Lin_Bartels
Elaine_Stebler
Bob_Abt
Francisco_Escobedo
Eric_Taylor
Annie_Oxarart
Jie_Li_(Christine)
Jason_Pike
Adam_Maggard
Josh_Idassi
Puneet_Dwivedi
Casey_Ausmus
Damian_Adams
Randy_Holeman
Andres_Susaeta
Jianbang_Gan
Hilary_Cole
Allen_Milligan
Teri_Medsker
Maxwell_Wightman
Jose_Soto
Stephanie_Hall
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Casey_Meek
Don_Grebner
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Richard_Plate
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Melissa_Kreye
Sean_Burns
Puskar_Khanal